



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: BROWN, David C.

OCT - 3 2001
Group Art Unit: 2834
TC 2800 MAIL ROOM

Serial No. 09/758,078

Examiner: Perez, G.

Filed: January 10, 2001

Atty. Dkt. No: OSPD91-US

For: ROTARY DEVICE WITH MATCHED EXPANSION CERAMIC BEARINGS

7/a
Hawkins
10/3/01

To: Assistant Commissioner of Patents
Box No Fee/Amendment
Washington, D.C. 20231

From:



CERTIFICATE OF MAILING 37 CFR 1.8: I certify that this correspondence is being deposited on the below date with the U.S. Postal Service with sufficient postage as FIRST CLASS MAIL addressed to: Assistant Commissioner of Patents, Washington, DC 20231.

[X] Debra A. Stengel *Debra A. Stengel*
Date: 09/28/2001 Vernon C. Maine, Reg. No. 37,389 or Scott J. Asmus, Reg. No. 42,269

AMENDMENT UNDER 37 CFR 1.85 and 1.115

In response to the Office Action of June 28, 2001, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 9, line 6, with the following rewritten paragraph:

a Housing 10 encloses stator 1 with its stator winding 4, and rotor 2. Rotor 2 is supported at the rear and front ends of housing 10 by ceramic bearing assemblies 5 and 6 respectively. Bearing assemblies 5 and 6 are functionally identical, each having a ceramic inner race 21, attached by a glue joint 8 to a respective end of rotor 2, and an outer race 25, attached by a glue joint 11 to a respective end of stator 1. Stator 1 is in turn secured by glue joint 7 within housing 10. Housing 10, stator 1 and rotor 2 are all fabricated using matched expansion, nickel-iron alloy ratios generally between 30/70% and 70/30% as is required to match the thermal expansion characteristics of the ceramic bearing assemblies in the normal temperature range of the device.